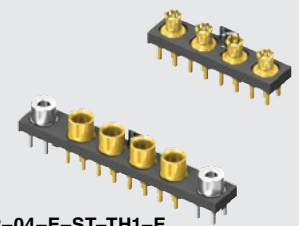
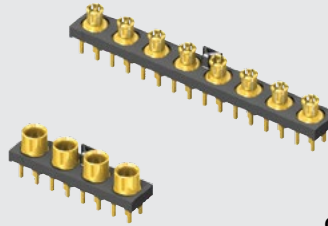




GRF1-P-P-08-E-ST-TH1

GRF1-P-P-04-E-ST-TH1



GRF1-J-P-04-E-ST-TH1

GRF1-J-P-04-E-ST-TH1-E

GRF1-J, GRF1-P SERIES

(5.00 mm) .197"

50 Ω GANGED MICRO-MINI RF SYSTEMS

SPECIFICATIONS

Shell Material:
Brass

Insulator Material:
PTFE

Contact Material:
BeCu

Pin Material:
Brass

Plating:
30 μ" (0.76 μm) Au
over 50 μ" (1.27 μm) Ni

Current Rating (GRF1-J/GRF1-P):
Signals: 3.6 A per pin
(8 adjacent pins powered)
Grounds: 6.2 A per pin
(8 adjacent pins powered)

Operating Temp Range:
-40 °C to +90 °C

Insulation Resistance:
1000 mΩ min

Contact Resistance:
Center: 5 mΩ
Outer: 2.5 mΩ

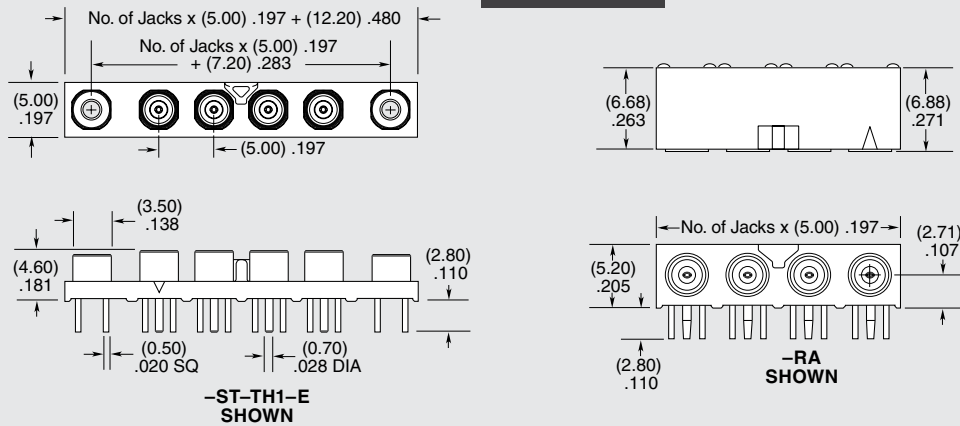
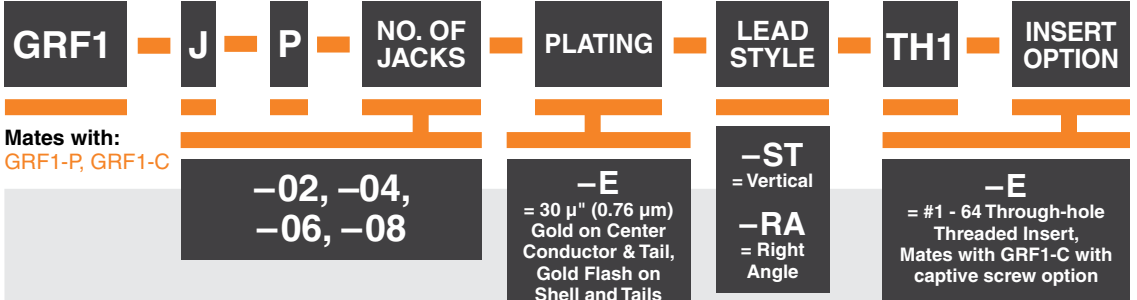
Impedance:
50 Ω

Dielectric Withstanding Voltage:
500 Vrms, 50Hz

Dielectric Working Voltage:
170 Vrms, 50Hz

Frequency Range:
0-6 GHz

RoHS Compliant:
Yes



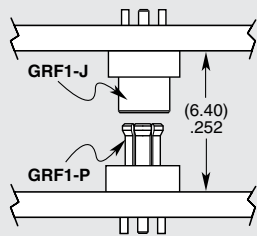
PROCESSING

Lead-Free Solderable:
Yes

RECOGNITIONS

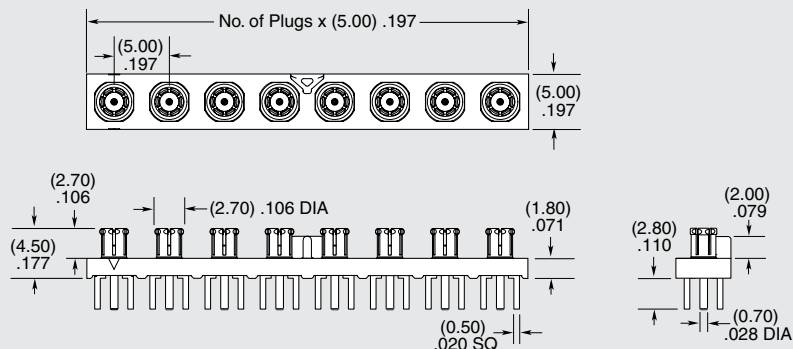
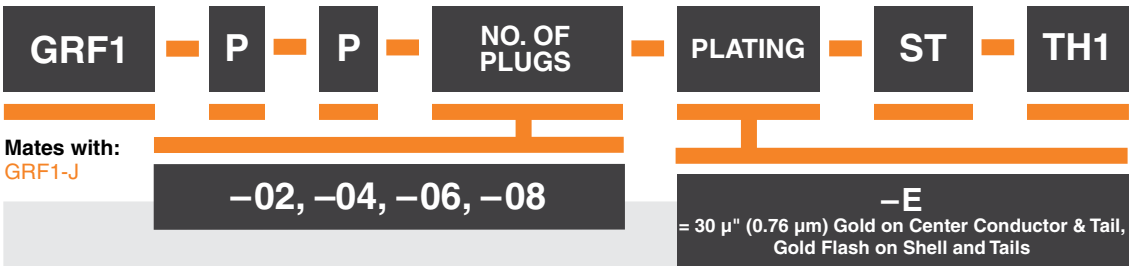


APPLICATION



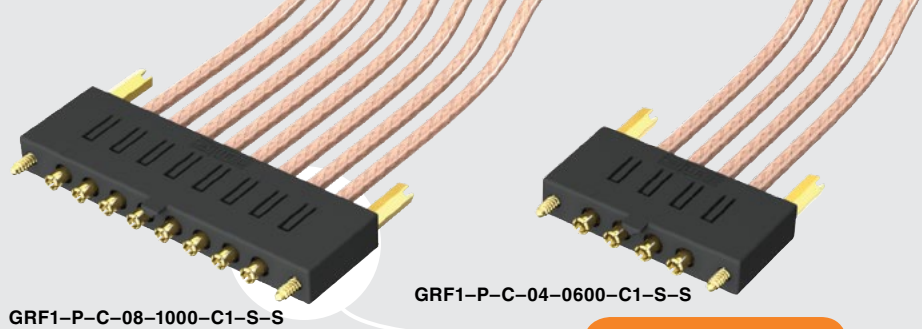
OTHER SOLUTIONS

- Cable assembly (see GRF1-C Series)



Due to technical progress, all designs, specifications and components are subject to change without notice.

(5.00 mm) .197"



GRF1-C SERIES

50 Ω GANGED MICRO-MINI RF CABLE

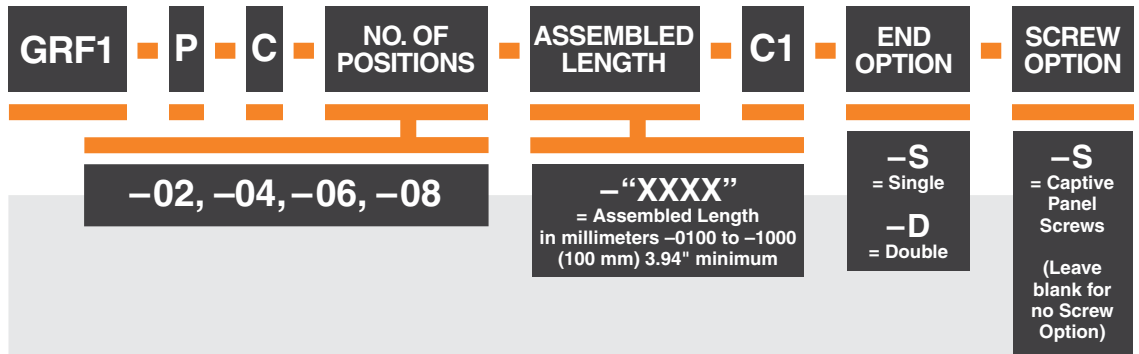
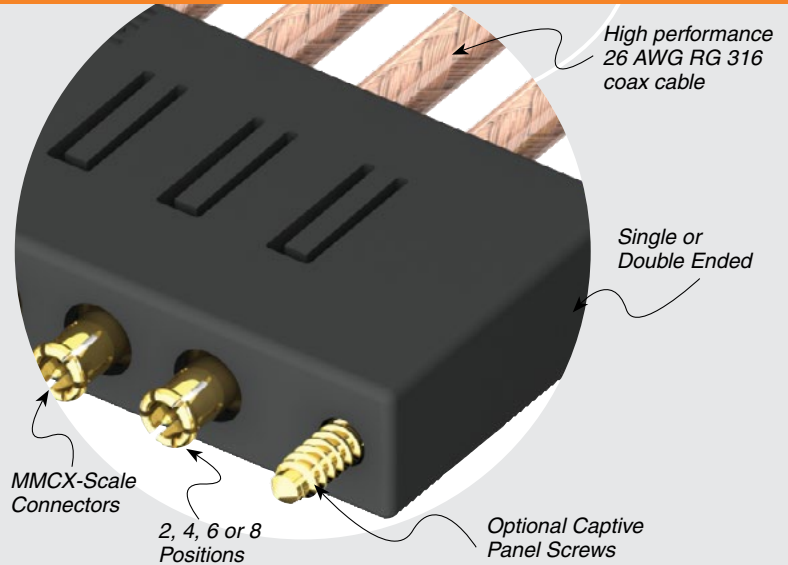
SPECIFICATIONS

Shell Material:
Brass
Insulator Material:
PTFE
Contact Material:
BeCu
Pin Material:
Brass
Plating:
30 μm (0.76 μm) Au over
50 μm (1.27 μm) Ni
Operating Temp Range:
-40 °C to +90 °C
Impedance:
50 Ω
RoHS Compliant:
Yes
RG 316 Cable:
Impedance:
50 Ω
Capacitance:
96.432 pF/meter
Propagation Delay:
4.83 nsec/meter
Max Attenuation (cable only):
1.25 dB @ 1 GHz for 1 meter
Conductor Size:
26 AWG, (0.51 mm) .020" dia.
Conductor Material:
Silver Plated Copper
Insulator Diameter:
(1.52 mm) .060"
Insulator Material:
PTFE
Shield Material:
Silver Plated Copper Clad Steel
Jacket Material:
FEP
Jacket Diameter:
(2.54 mm) .100"
Jacket Color:
Amber
Bend Radius:
12.7 mm
RoHS Compliant:
Yes

Mates with:
GRF1-J

OTHER SOLUTIONS

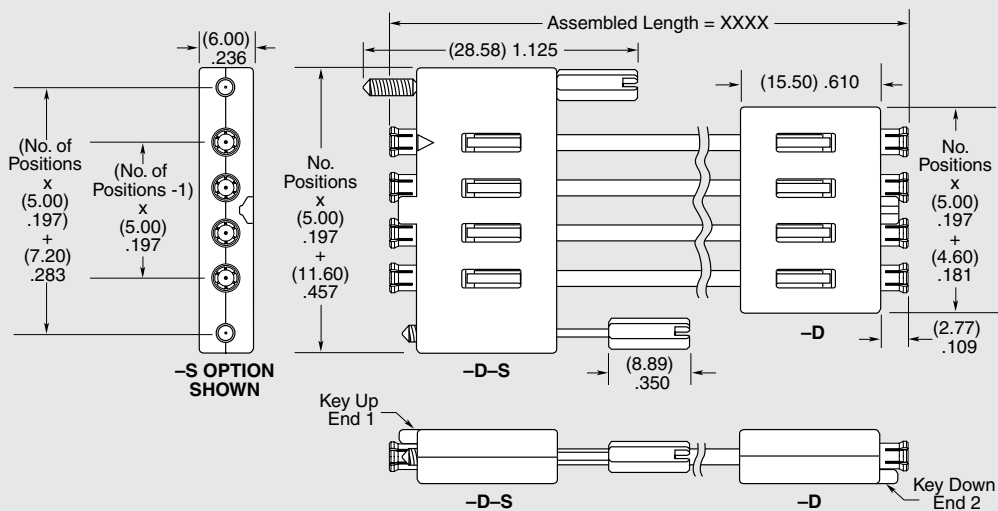
- 50 Ω Board-to-Board system (see GRF1-J & GRF1-P Series)



RECOGNITIONS



Notes:
 Cable lengths longer than 40.00" (1 meter) are not supported with S.I. test data.
 This Series is non-standard, non-returnable.



Due to technical progress, all designs, specifications and components are subject to change without notice.

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All parts within this catalog are built to Samtec's specifications.
 Customer specific requirements must be approved by Samtec and identified in a Samtec customer-specific drawing to apply.